

Element (ELCHW321) 32 inch LCD TV Service Manual

Overview:

The purpose of this manual is to guide Nexicore technicians through the proper procedures for servicing the Hisense 32 inch LCD televisions. Utilizing this manual will assist technicians with proper replacement of all major components of the unit.

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Required Tools:

Non-marking Pry Tool
Phillips Head Screwdriver
Anti-Static Wrist Strap
Kapton Tape or Electrical Tape
Ant-Static Mat

1. Stand Removal

- To ensure no damage to the front LCD Panel, gently place unit face down on padded anti-static mat with the stand hanging over the edge of the work surface.



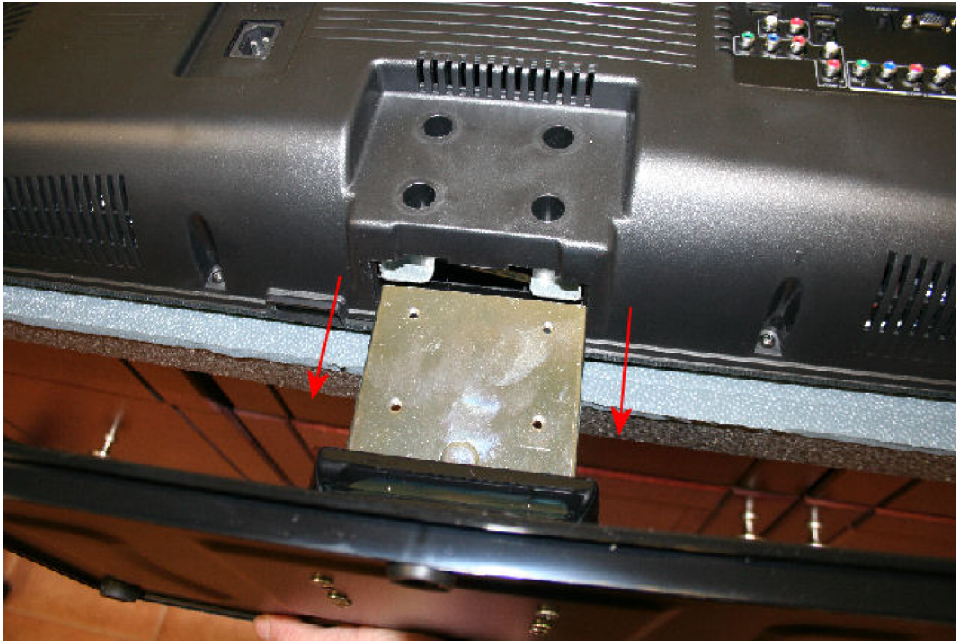
(Figure 1)

- Remove the 4 screws that secure the stand to the unit.



(Figure 2)

- Slide stand from unit by gently pulling it towards you.



(Figure 3)

2. Wall Mounting Bracket Removal

- To ensure no damage to the front LCD Panel, gently place unit face down on padded anti-static mat.
- Remove the 4 screws that secure the wall mounting bracket (wall mounting bracket not pictured here).



(Figure 4)

- Gently remove the bracket from the unit.

3. Back Cover Removal

- To ensure no damage to the front LCD Panel, gently place unit face down on padded anti-static mat.
- Remove the 14 screws from the perimeter of the back cover.



(Figure 5)

- Next, remove the remaining 2 screws from the center section of the back cover.

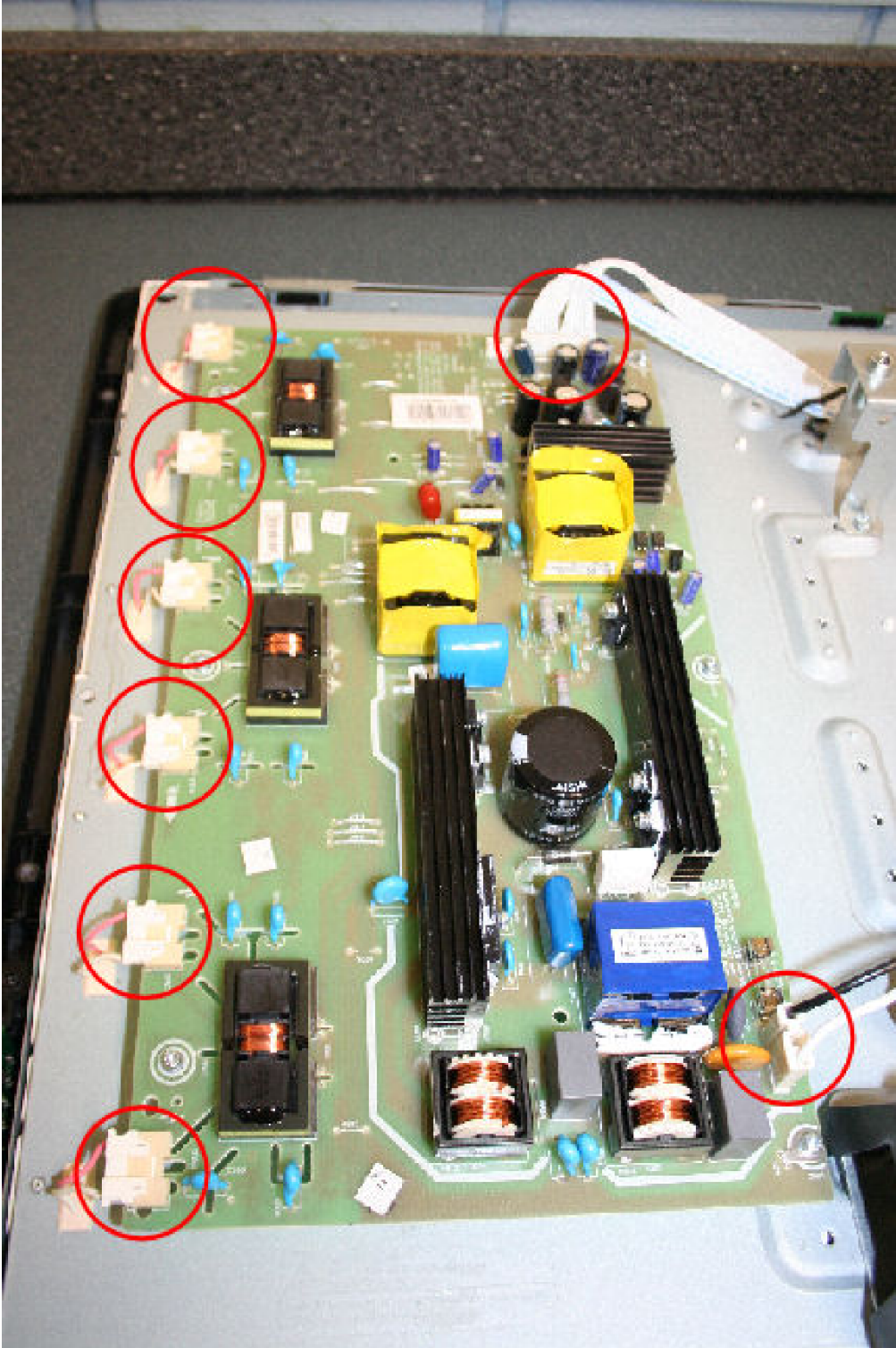


(Figure 6)

- Carefully lift the back cover from the unit.

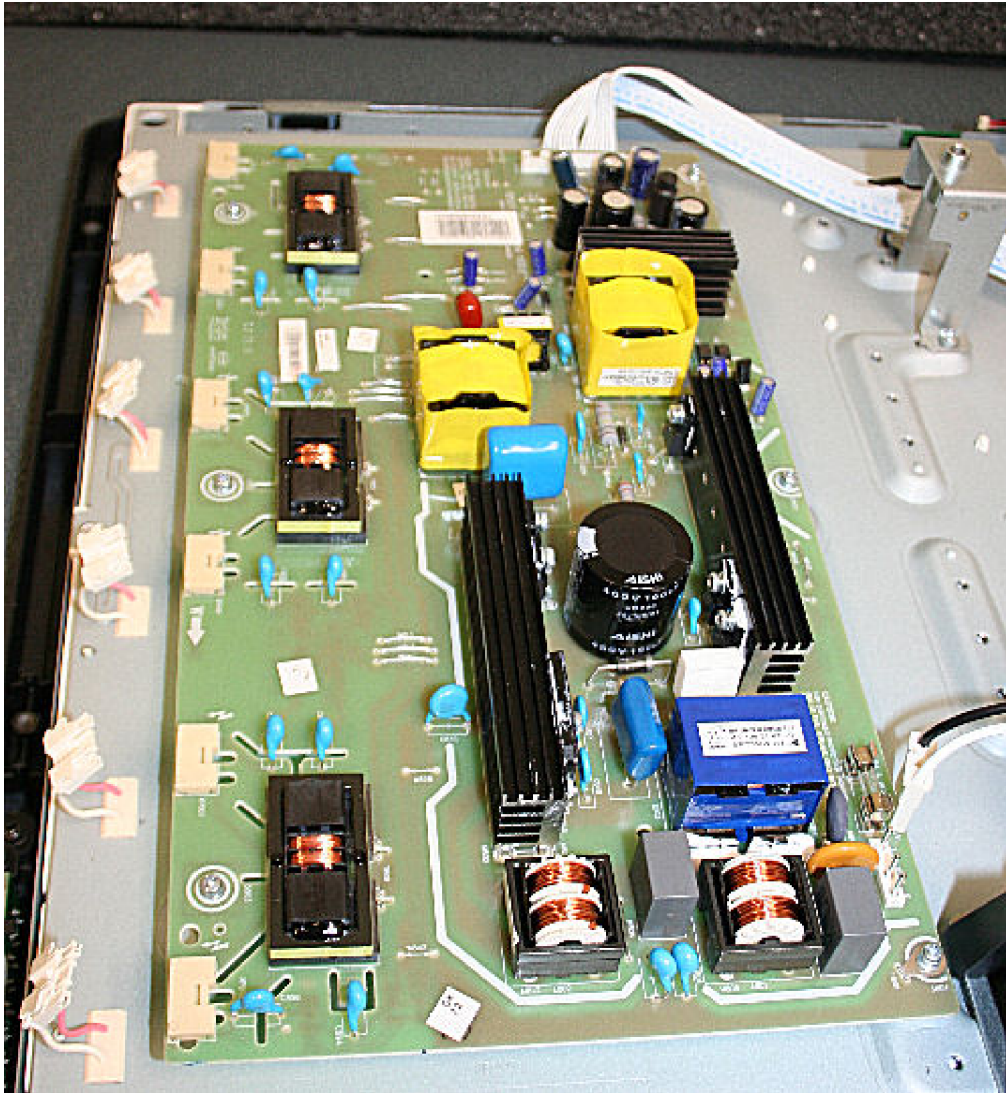
4. Power Supply Unit Replacement

- Remove [Back Cover](#).
- Disconnect the 8 cables attached to the Power Supply Unit (PSU).



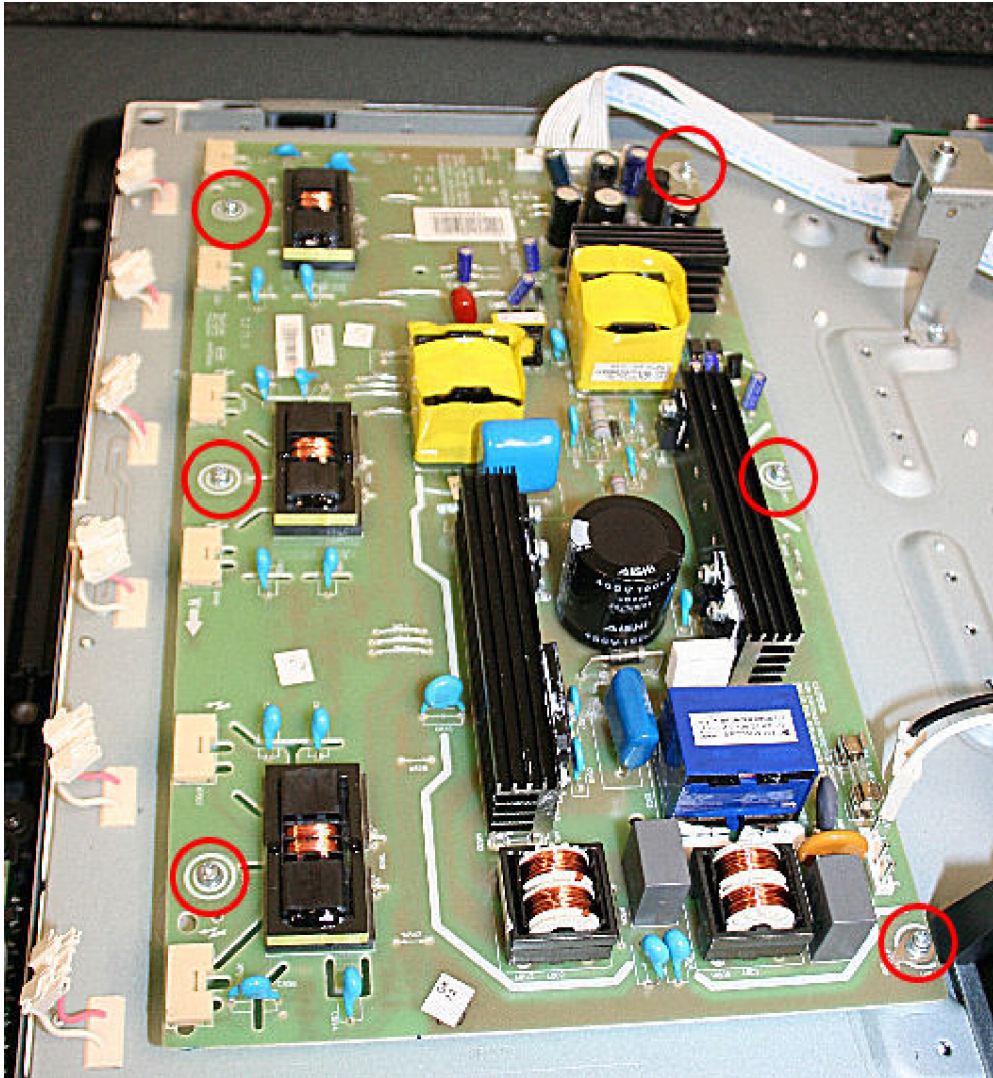
(Figure 7)

- Figure 8 shows all cables removed from the PSU.



(Figure 8)

- Remove the 6 screws securing the PSU board to the mount.

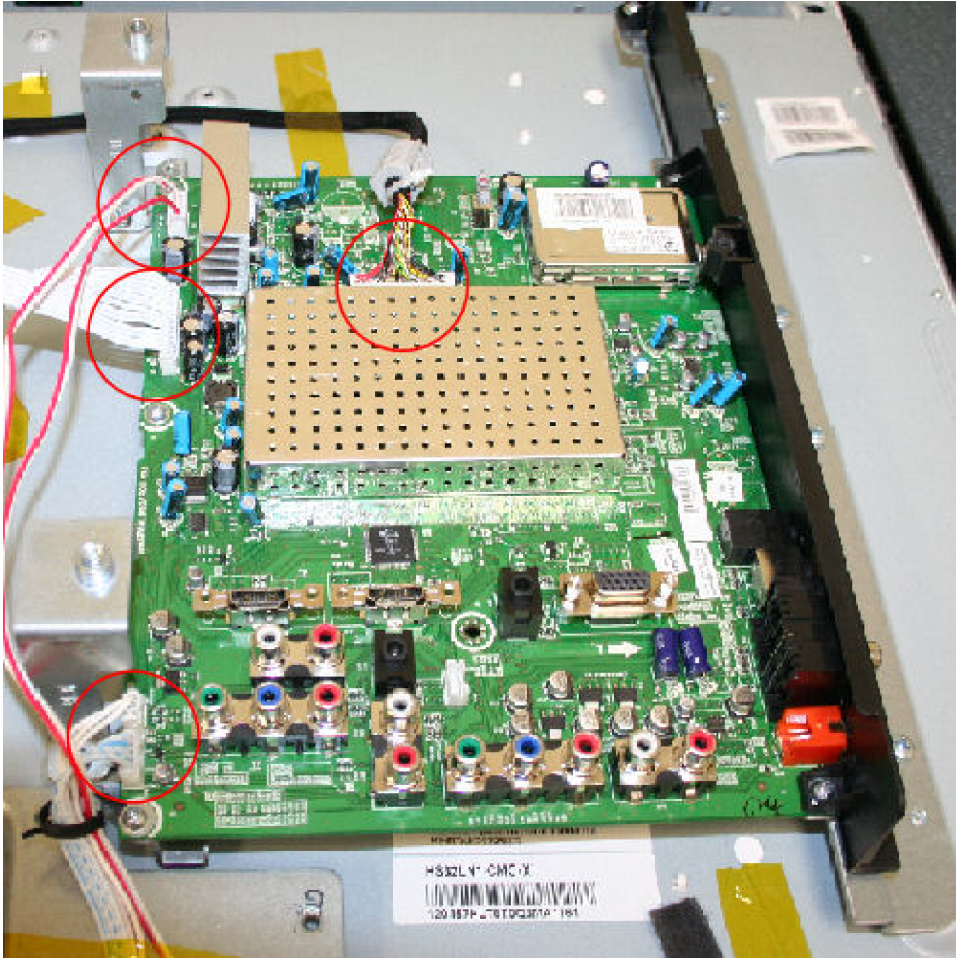


(Figure 9)

- Gently lift the PSU from the mount.
- To reinstall the PSU place unit on mount ensuring screw holes line up properly.
- Reinstall the 6 screws.
- Reconnect all cables.

5. Main Board Replacement

- Remove [Back Cover](#).
- Disconnect all cables from Main Board.
- Some connectors may have secure hot glue on them. Please peel off the glue before remove the connector, otherwise the connector could be damaged.



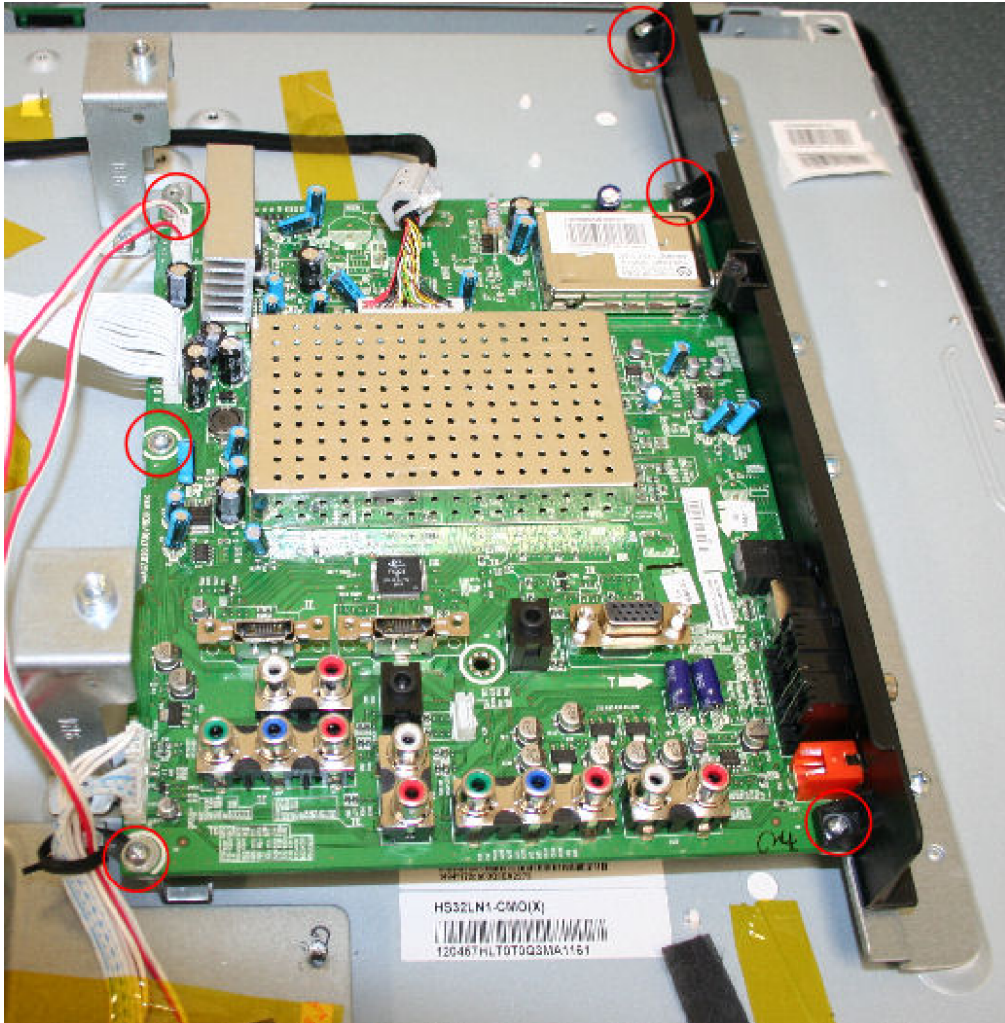
(Figure 10)

- Figure 11 shows all cables disconnected from the Main Board.



(Figure 11)

- Remove the 6 screws that secure the Main Board and Bracket. Gently lift Main Board from Mount.



(Figure 12)



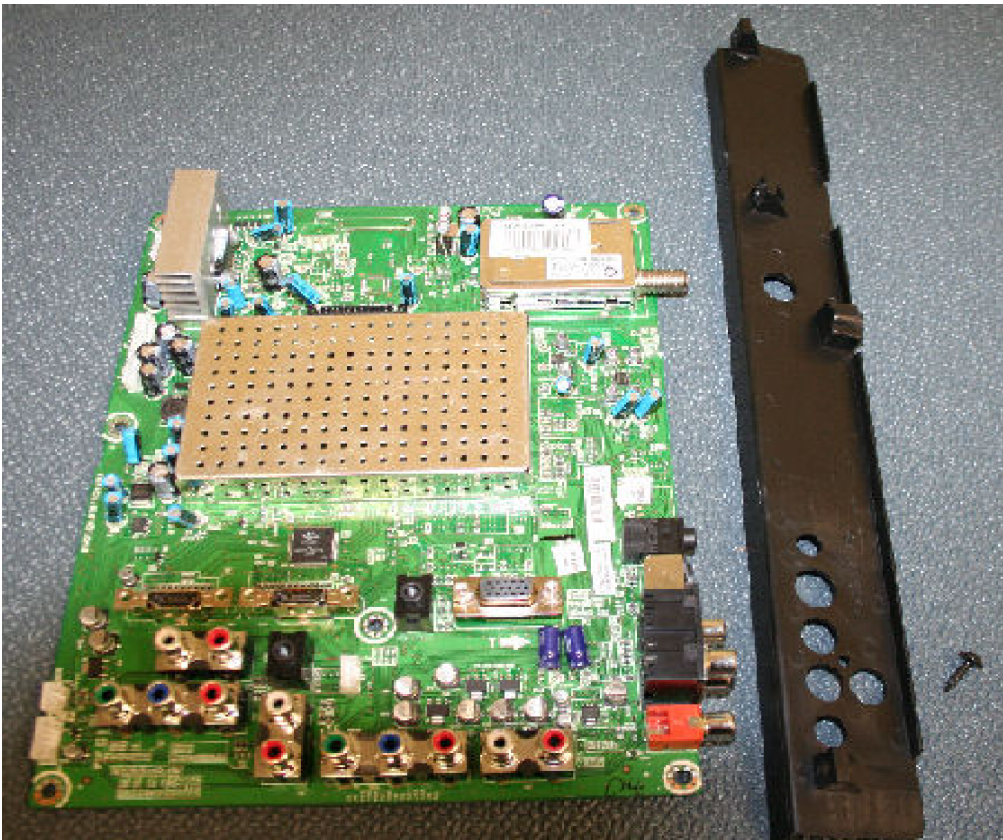
(Figure 13)

- Remove the 1 screw that secures the side Bezel from the Main Board.



(Figure 14)

- Gently remove the side Bezel from Main Board

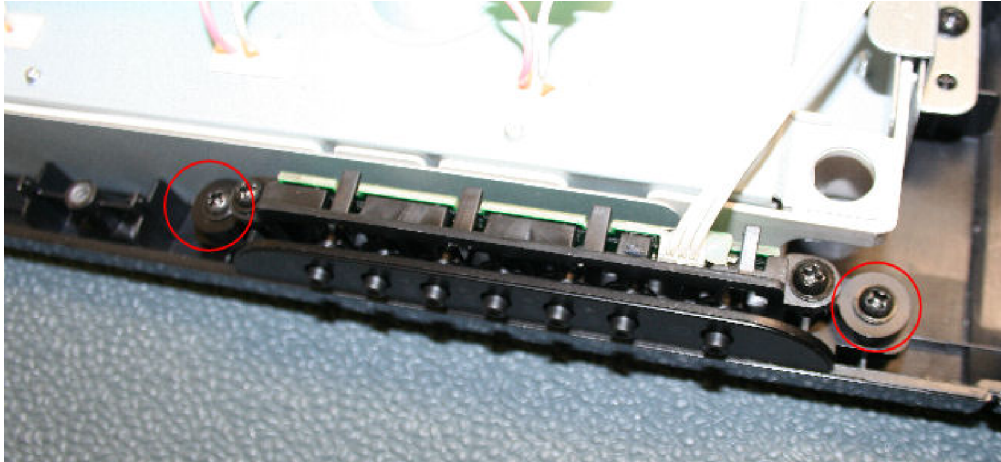


(Figure 15)

- To reinstall the Main Board, secure the side Bezel with 1 screw. Use 6 screws to secure the Main Board to mount, ensuring screw holes line up correctly. Reconnect all the cables. Note: do not force the cables as they are designed to only fit in their correct slot.

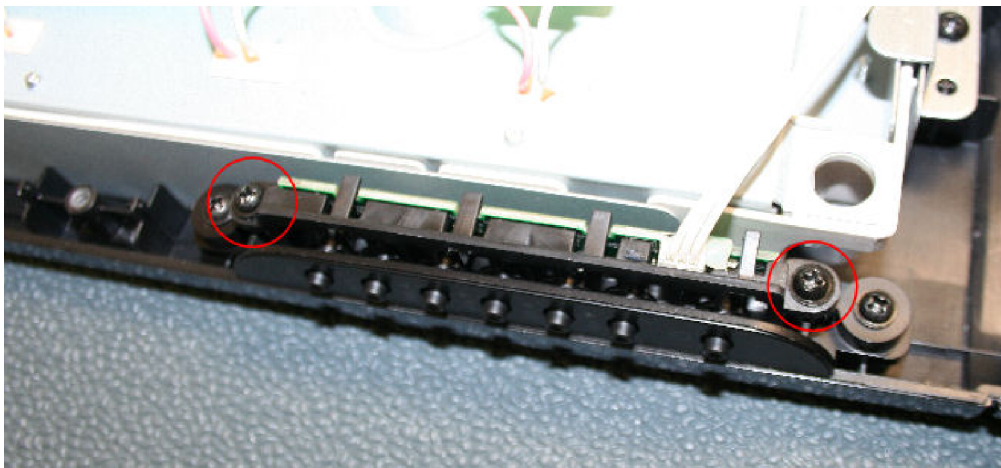
6. Keyboard Replacement

- Remove [Back Cover](#).
- Disconnect Keyboard cable.
- Remove 2 outer screws and carefully lift the Keyboard from the unit.



(Figure 16)

- Remove the 2 inner screws and lift the cover from the Keyboard. Use extreme care when releasing the tabs along the edge of the cover, as the tabs are very delicate.

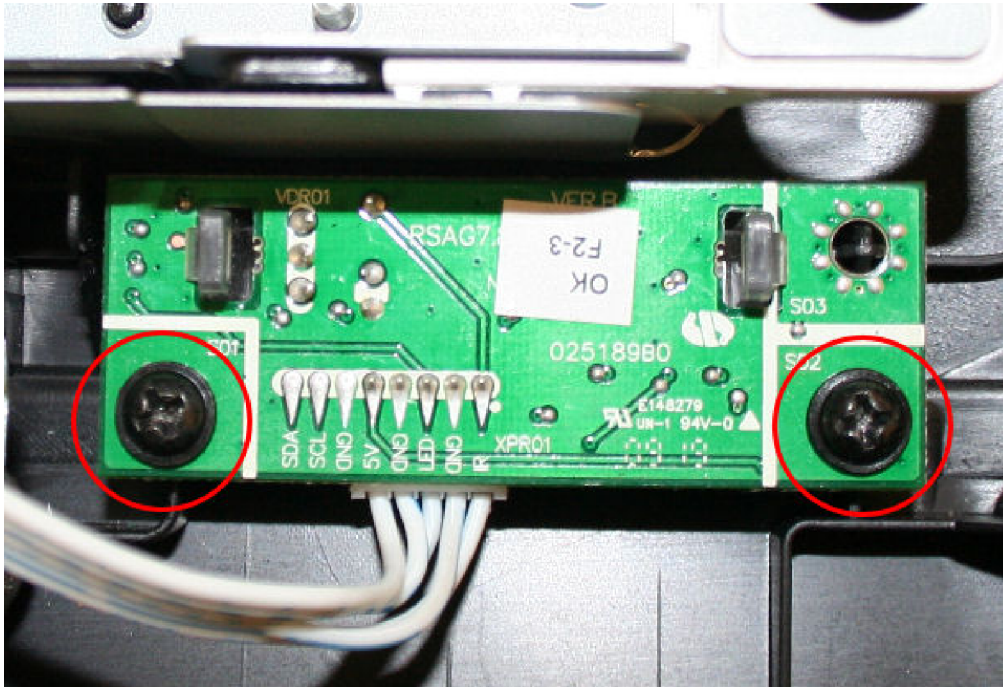


(Figure 17)

- To reinstall the Keyboard, place the cover over the Keyboard and secure the 2 inner screws. Place the Keyboard in slot and secure the 2 outer screws then reconnect the cable.

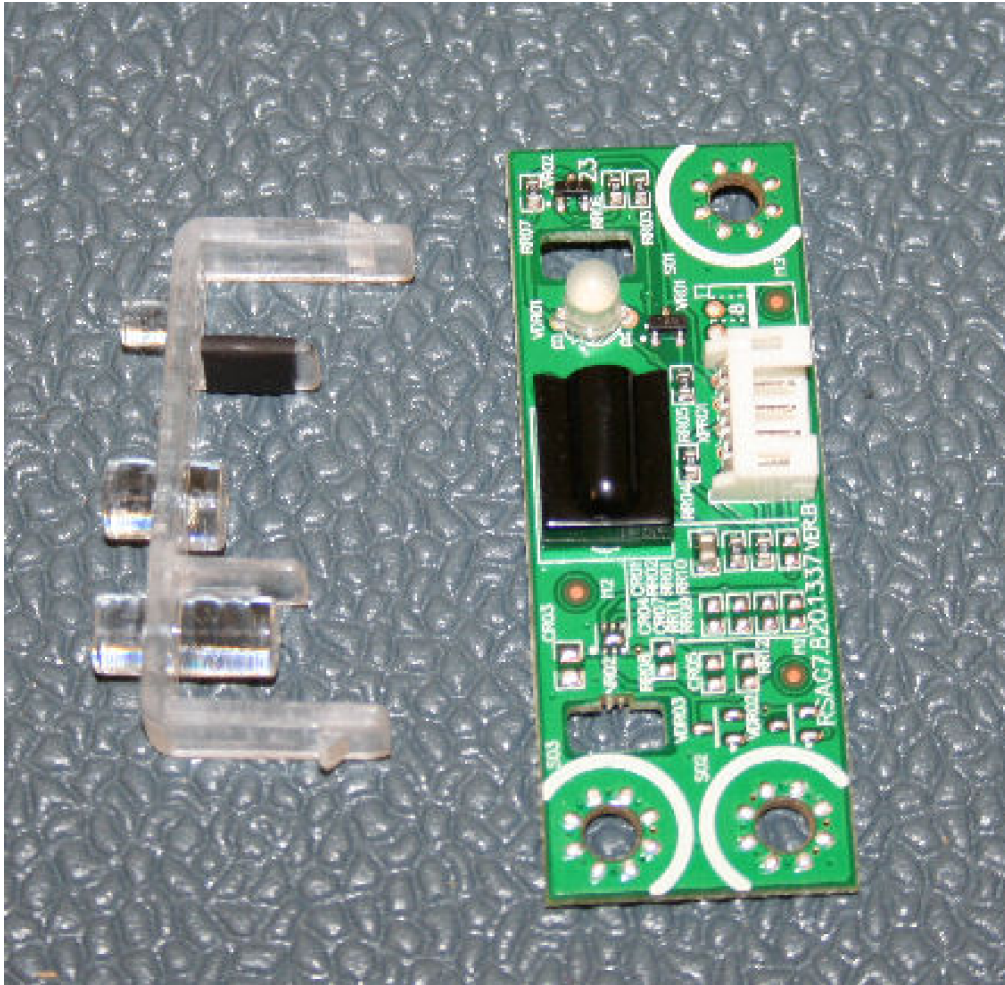
7. LED/IR Board Replacement

- Remove the [Back Cover](#).
- Remove the 2 screws securing the LED/IR Board to the unit. Gently lift the board up then disconnect the cable.



(Figure 18)

- The LED lens may need to be transferred from original board to the new board. Just release the tabs on back and the lens will pop off.



(Image 19)

- To reinstall connect the cable, and then secure with the 2 screws.

8. Parts Lists

ELEMENT ELCHW321 Parts list

No.	Part No.	Part Name	Description	Category
1	122149	Main board	RSAG2.908.1553-3\ROH	P1
2	119904	Power board	RSAG2.908.1400- 1\ROH	P1
3	116295	IR board	RSAG2.908.1260-2\ROH	P1
4	113354	Key pad	RSAG2.908.1088\ROH	P1
5	1044276	LVDS cable	HX-0145\ROH	P1
6	1041171	Speakers wire	TJC3H-4Y-400-600\ROH	P1
7	1055278	Speakers	YDT5016-10W8R-H\ROH	P1
8	1051636	Power cord	YS-05+YS-22A\ROH	P1
9	1060618	Remote control	EN-31607E\ROH	P1
10	1049482	Stand	WG6.121.054\H1\ROH	P2
11	1051735	Front bezel	RSAG8.074.553\Z1\ROH	P2
12	1048975	Light window	RSAG8.640.065\ROH	P2
13	1051723	Back cover	RSAG8.074.524\Z1\ROH	P2
14	1051670	Side label	RSAG8.804.3293\ROH	P2
15	1057588	Bottom label	RSAG8.804.3429\ROH	P2
16	1060488	Rating label	RSAG8.807.4341\ROH	P2
17	1049943	Stand hole cover	RSAG8.634.064\Z0\ROH	P3
18	1028377	Accessories bag	RSR8.840.049\ROH	P3
19	1028375	Stand screw bag	RSAG8.840.016\ROH\STD	P3
20	1028333	Battery	LR03(7#)\ROH	P3
21	1056131	Upper foam	RSAG8.870.1336\ROH	P3
22	1056132	Below foam	RSAG8.870.1337\ROH	P3
23	1060414	TV box	RSAG6.875.4373\ROH	P3
24	1036391	Cover	RSAG8.634.047\ROH	P3
25	1060853	User manual	IES090555\ROH	P3
26	1052403	Quick start guide	IEB080507\ROH	P3
27	1052079	Service page	IEB080503\ROH	P3
28	1052249	CHILD SAFETY English	IEB080506\ROH	P3
29	1052734	CHILD SAFETY Spanish	IEB080510\ROH	P3
30	1044923	Remote code guide English	IES070520\ROH	P3
31	1052733	Remote code guide Spanish	IEB080509\ROH	P3
32	1060848	Warranty card English	IEB090503\ROH	P3
33	1060849	Warranty card Spanish	IEB090504\ROH	P3
Note	Description			
P1	Main electronic parts for service.			
P2	Cosmetic parts, mainly used in refurbishing.			
P3	Package or refurbishing parts, most of it is used in refurbishing.			

Wiring part numbers

No.	Part #	Function	Factory code
1	1044276	LVDS cable	HX-0145\ROH
2	1041171	Speaker wires	TJC3H-4Y-400-600\ROH
3	1042085	Power board to Main board	TJC10T-14Y-450\ROH
4	1034088	Keypad wire	TJC10T-3Y-650\ROH
5	1029223	IR board wire	TJC10T-5Y-400\ROH
6	1041501	Power inlet to Power board	TJC2-3Y-500-2-S\ROH

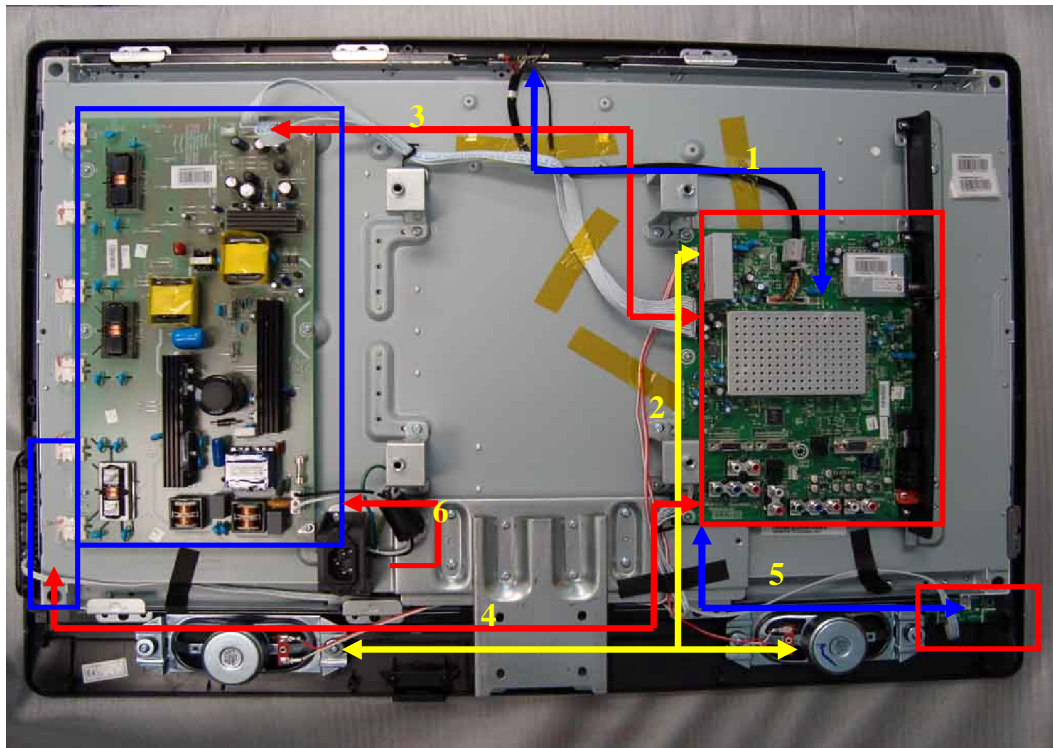


Image courtesy of Hisense (Image 20)